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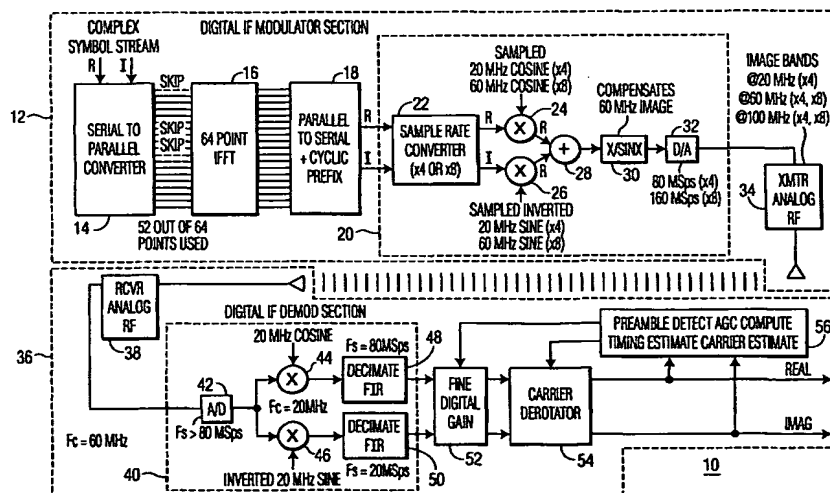
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(54) Title: DIGITAL RF TRANSCEIVER WITH MULTIPLE IMAGING MODES



(57) Abstract: The disclosed embodiments relate to a digital radio frequency (RF) circuit (100) that creates a signal in a desired range in a frequency spectrum. The RF circuit (100) comprises circuitry (104) that produces a first sample data modulated signal (105) having a first frequency and a first sample data clock rate. An up-sampler modulator (108) receives the first sample data modulated signal and produces a second sample data modulated signal (109) having a second frequency and a second sample data clock rate. The RF circuit (100) may also comprise circuitry (112) that receives the first sample data modulated signal and the second sample data modulated signal and delivers one of the first sample data modulated signal (105) and the second sample data modulated signal (109) for further processing depending on which sample data modulated signal exhibits desirable characteristics for a given operating environment.

WO 2005/041408 A1